

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/017,743C

DATE: 06/23/2000  
TIME: 06:19:36

Input Set : A:\018623-805.app  
Output Set: N:\CRF3\06222000\I017743C.raw

SEQUENCE LISTING

C--> 5 (1) GENERAL INFORMATION:

- 7 (i) APPLICANT: Sette, Alessandro
- 8 Sidney, John
- 9 Southwood, Scott
- C--> 11 (ii) TITLE OF INVENTION: HLA Binding Peptides and Their
- 12 Uses
- 14 (iii) NUMBER OF SEQUENCES: 146
- 16 (iv) CORRESPONDENCE ADDRESS:
  - 17 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
  - 18 (B) STREET: Two Embarcadero Center, Eighth Floor
  - 19 (C) CITY: San Francisco
  - 20 (D) STATE: CA
  - 21 (E) COUNTRY: USA
  - 22 (F) ZIP: 94111-3834
- 24 (v) COMPUTER READABLE FORM:
  - 25 (A) MEDIUM TYPE: Diskette
  - 26 (B) COMPUTER: IBM Compatible
  - 27 (C) OPERATING SYSTEM: DOS
  - 28 (D) SOFTWARE: FastSEQ for Windows Version 2.0

C--> 30 (vi) CURRENT APPLICATION DATA:

- C--> 31 (A) APPLICATION NUMBER: US/09/017,743C
- C--> 32 (B) FILING DATE: 03-Feb-1998
- 33 (C) CLASSIFICATION:
- 35 (vii) PRIOR APPLICATION DATA:
  - 36 (A) APPLICATION NUMBER: US 08/590,298
  - 37 (B) FILING DATE: 23-JAN-1996
- 39 (viii) ATTORNEY/AGENT INFORMATION:
  - 40 (A) NAME: Parent, Annette S.
  - 41 (B) REGISTRATION NUMBER: 42,058
  - 42 (C) REFERENCE/DOCKET NUMBER: 018623-008050US
- 44 (ix) TELECOMMUNICATION INFORMATION:
  - 45 (A) TELEPHONE: 415-576-0200
  - 46 (B) TELEFAX: 415-576-0300
  - 47 (C) TELEX:

- 50 (2) INFORMATION FOR SEQ ID NO: 1:
  - 52 (i) SEQUENCE CHARACTERISTICS:
    - 53 (A) LENGTH: 8 amino acids
    - 54 (B) TYPE: amino acid
    - 55 (C) STRANDEDNESS: single
    - 56 (D) TOPOLOGY: linear
  - 58 (ii) MOLECULE TYPE: peptide
  - 60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
  - 62 Val Pro Leu Gln Leu Pro Pro Leu
  - 63 1 5
- 65 (2) INFORMATION FOR SEQ ID NO: 2:
  - 67 (i) SEQUENCE CHARACTERISTICS:

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JUL 12 2000

TECH CENTER 1600/2900

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68 (A) LENGTH: 8 amino acids  
69 (B) TYPE: amino acid  
70 (C) STRANDEDNESS: single  
71 (D) TOPOLOGY: linear  
73 (iii) MOLECULE TYPE: peptide  
75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
77 Ala Pro Thr Leu Trp Ala Arg Met  
78 1 5  
80 (2) INFORMATION FOR SEQ ID NO: 3:  
82 (i) SEQUENCE CHARACTERISTICS:  
83 (A) LENGTH: 8 amino acids  
84 (B) TYPE: amino acid  
85 (C) STRANDEDNESS: single  
86 (D) TOPOLOGY: linear  
88 (ii) MOLECULE TYPE: peptide  
90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
92 Ile Pro Phe Tyr Gly Lys Ala Ile  
93 1 5  
95 (2) INFORMATION FOR SEQ ID NO: 4:  
97 (i) SEQUENCE CHARACTERISTICS:  
98 (A) LENGTH: 8 amino acids  
99 (B) TYPE: amino acid  
100 (C) STRANDEDNESS: single  
101 (D) TOPOLOGY: linear  
103 (ii) MOLECULE TYPE: peptide  
105 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
107 Ile Pro Leu Val Gly Ala Pro Leu  
108 1 5  
110 (2) INFORMATION FOR SEQ ID NO: 5:  
112 (i) SEQUENCE CHARACTERISTICS:  
113 (A) LENGTH: 8 amino acids  
114 (B) TYPE: amino acid  
115 (C) STRANDEDNESS: single  
116 (D) TOPOLOGY: linear  
118 (ii) MOLECULE TYPE: peptide  
120 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
122 Lys Pro Ala Arg Leu Ile Val Phe  
123 1 5  
125 (2) INFORMATION FOR SEQ ID NO: 6:  
127 (i) SEQUENCE CHARACTERISTICS:  
128 (A) LENGTH: 8 amino acids  
129 (B) TYPE: amino acid  
130 (C) STRANDEDNESS: single  
131 (D) TOPOLOGY: linear  
133 (ii) MOLECULE TYPE: peptide  
135 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
137 Leu Pro Gly Cys Ser Phe Ser Ile  
138 1 5  
140 (2) INFORMATION FOR SEQ ID NO: 7:

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142 (i) SEQUENCE CHARACTERISTICS:  
143 (A) LENGTH: 8 amino acids  
144 (B) TYPE: amino acid  
145 (C) STRANDEDNESS: single  
146 (D) TOPOLOGY: linear  
148 (ii) MOLECULE TYPE: peptide  
150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
152 Leu Pro Arg Arg Gly Pro Arg Leu  
153 1 5  
155 (2) INFORMATION FOR SEQ ID NO: 8:  
157 (i) SEQUENCE CHARACTERISTICS:  
158 (A) LENGTH: 8 amino acids  
159 (B) TYPE: amino acid  
160 (C) STRANDEDNESS: single  
161 (D) TOPOLOGY: linear  
163 (ii) MOLECULE TYPE: peptide  
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
167 Leu Pro Tyr Ile Glu Gln Gly Met  
168 1 5  
170 (2) INFORMATION FOR SEQ ID NO: 9:  
172 (i) SEQUENCE CHARACTERISTICS:  
173 (A) LENGTH: 9 amino acids  
174 (B) TYPE: amino acid  
175 (C) STRANDEDNESS: single  
176 (D) TOPOLOGY: linear  
178 (ii) MOLECULE TYPE: peptide  
180 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
182 Cys Pro Lys Val Ser Phe Glu Pro Ile  
183 1 5  
185 (2) INFORMATION FOR SEQ ID NO: 10:  
187 (i) SEQUENCE CHARACTERISTICS:  
188 (A) LENGTH: 9 amino acids  
189 (B) TYPE: amino acid  
190 (C) STRANDEDNESS: single  
191 (D) TOPOLOGY: linear  
193 (ii) MOLECULE TYPE: peptide  
195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
197 Ile Pro Ile His Tyr Cys Ala Pro Ala  
198 1 5  
200 (2) INFORMATION FOR SEQ ID NO: 11:  
202 (i) SEQUENCE CHARACTERISTICS:  
203 (A) LENGTH: 9 amino acids  
204 (B) TYPE: amino acid  
205 (C) STRANDEDNESS: single  
206 (D) TOPOLOGY: linear  
208 (ii) MOLECULE TYPE: peptide  
210 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
212 His Pro Val His Ala Gly Pro Ile Ala  
213 1 5

Input Set : A:\018623-805.app  
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215 (2) INFORMATION FOR SEQ ID NO: 12:  
217 (i) SEQUENCE CHARACTERISTICS:  
218 (A) LENGTH: 10 amino acids  
219 (B) TYPE: amino acid  
220 (C) STRANDEDNESS: single  
221 (D) TOPOLOGY: linear  
223 (iii) MOLECULE TYPE: peptide  
225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
227 His Pro Arg Ile Ser Ser Glu Val His Ile  
228 1 5 10  
230 (2) INFORMATION FOR SEQ ID NO: 13:  
232 (i) SEQUENCE CHARACTERISTICS:  
233 (A) LENGTH: 10 amino acids  
234 (B) TYPE: amino acid  
235 (C) STRANDEDNESS: single  
236 (D) TOPOLOGY: linear  
238 (iii) MOLECULE TYPE: peptide  
240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
242 Leu Pro Ile Asn Ala Leu Ser Asn Ser Leu  
243 1 5 10  
245 (2) INFORMATION FOR SEQ ID NO: 14:  
247 (i) SEQUENCE CHARACTERISTICS:  
248 (A) LENGTH: 11 amino acids  
249 (B) TYPE: amino acid  
250 (C) STRANDEDNESS: single  
251 (D) TOPOLOGY: linear  
253 (iii) MOLECULE TYPE: peptide  
255 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:  
257 Ile Pro Tyr Asn Pro Gln Ser Gln Gly Val Val  
258 1 5 10  
260 (2) INFORMATION FOR SEQ ID NO: 15:  
262 (i) SEQUENCE CHARACTERISTICS:  
263 (A) LENGTH: 11 amino acids  
264 (B) TYPE: amino acid  
265 (C) STRANDEDNESS: single  
266 (D) TOPOLOGY: linear  
268 (iii) MOLECULE TYPE: peptide  
270 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
272 Ala Pro Thr Leu Trp Ala Arg Met Ile Leu Met  
273 1 5 10  
275 (2) INFORMATION FOR SEQ ID NO: 16:  
277 (i) SEQUENCE CHARACTERISTICS:  
278 (A) LENGTH: 9 amino acids  
279 (B) TYPE: amino acid  
280 (C) STRANDEDNESS: single  
281 (D) TOPOLOGY: linear  
283 (iii) MOLECULE TYPE: peptide  
285 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
287 Met Pro Ser Leu Thr Leu Ala Cys Leu

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288 1 5  
290 (2) INFORMATION FOR SEQ ID NO: 17:  
292 (i) SEQUENCE CHARACTERISTICS:  
293 (A) LENGTH: 9 amino acids  
294 (B) TYPE: amino acid  
295 (C) STRANDEDNESS: single  
296 (D) TOPOLOGY: linear  
298 (iii) MOLECULE TYPE: peptide  
300 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
302 Val Pro His Val Ile Glu Glu Val Met  
303 1 5  
305 (2) INFORMATION FOR SEQ ID NO: 18:  
307 (i) SEQUENCE CHARACTERISTICS:  
308 (A) LENGTH: 10 amino acids  
309 (B) TYPE: amino acid  
310 (C) STRANDEDNESS: single  
311 (D) TOPOLOGY: linear  
313 (iii) MOLECULE TYPE: peptide  
315 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:  
317 Trp Pro Tyr Ile Ala Ser Arg Thr Ser Ile  
318 1 5 10  
320 (2) INFORMATION FOR SEQ ID NO: 19:  
322 (i) SEQUENCE CHARACTERISTICS:  
323 (A) LENGTH: 9 amino acids  
324 (B) TYPE: amino acid  
325 (C) STRANDEDNESS: single  
326 (D) TOPOLOGY: linear  
328 (iii) MOLECULE TYPE: peptide  
330 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
332 Phe Pro Val Thr Pro Gln Val Pro Leu  
333 1 5  
335 (2) INFORMATION FOR SEQ ID NO: 20:  
337 (i) SEQUENCE CHARACTERISTICS:  
338 (A) LENGTH: 9 amino acids  
339 (B) TYPE: amino acid  
340 (C) STRANDEDNESS: single  
341 (D) TOPOLOGY: linear  
343 (iii) MOLECULE TYPE: peptide  
345 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:  
347 Phe Pro Val Arg Pro Gln Phe Pro Leu  
348 1 5  
350 (2) INFORMATION FOR SEQ ID NO: 21:  
352 (i) SEQUENCE CHARACTERISTICS:  
353 (A) LENGTH: 9 amino acids  
354 (B) TYPE: amino acid  
355 (C) STRANDEDNESS: single  
356 (D) TOPOLOGY: linear  
358 (iii) MOLECULE TYPE: peptide  
360 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

## VERIFICATION SUMMARY

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Input Set : A:\018623-805.app

Output Set: N:\CRF3\06222000\I017743C.raw

L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]  
L:11 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]  
L:30 M:220 C: Keyword misspelled or invalid format, [(vi) CURRENT APPLICATION DATA:]  
L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:1974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128  
L:1996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129  
L:2016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:2036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131  
L:2056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132  
L:2076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133  
L:2091 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134  
L:2106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135  
L:2121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136  
L:2136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137  
L:2151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138  
L:2173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139  
L:2196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140  
L:2265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141  
L:2334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142  
L:2393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143  
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144  
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145  
L:2616 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146